

CURRICULUM VITAE

Majed Saleh Alokail

Nationality: Saudi Arabia.
e-Mail Address: malokail@ksu.edu.sa.
Current Position: Associate Professor
Present Address: Department of Biochemistry, College of Science #5,
King Saud University, P.O. Box 2455, Riyadh 11451
Tel. ++9661-467-5943, Fax. ++9661-467-5931

Qualifications:

- 1- BSc., Biochemistry, King Saud University in Riyadh, Saudi Arabia.
- 2- MSc., Biochemistry, King Saudi University in Riyadh, Saudi Arabia.
- 3- High diploma in Insulin Gene Therapy, Gunma University, Maebashi, Japan
- 4- Ph.D in Molecular Pharmacology at University of Southampton, UK.

Post-Doctoral Fellowships:

- 1- Canadian Breast Cancer Society for postdoctoral fellowship in Department of Biochemistry and Molecular Biology at University of Manitoba, Winnipeg, Canada
- 2- Sabbatical leave at Cancer Science Center at University of Southampton, Southampton, UK and Endocrine Unit at Harvard Medical School, Boston, MA, USA between June 2005 and September 2006.
- 3- AACR – AVON Breast Cancer Foundation Award for a presented paper entitle " Induction of erbB1 and erB2 Receptors by PTHrP in Breast Cancer Cells" in the 96th Annual Meeting of American Cancer Research (AACR) in Los Angeles, CA.USA, 2005.
- 4- British Airspace Summer Postdoctoral Fellowship on at Cancer Science Center at University of Southampton, Southampton, UK. June – September, 2005.
- 5- Postdoctoral fellowship for summer visit to Southampton University June 16, 2004 until August 18, 2004.
- 6- British Airspace Summer Postdoctoral Fellowship on 2002 at Cancer Science Center at University of Southampton, Southampton, UK. June 9, 2002 until September 7th 2002.
- 7- British Airspace Summer Postdoctoral Fellowship on at Cancer Science Center at University of Southampton, Southampton, UK. June 11, 2003 until September 11th 2003.
- 8- Postdoctoral fellowship for summer visit at Dept., of Pharmacology, University of Texas Medical Branch, Galveston, Texas. USA. From June 16, 2001 until August 31, 2001.
- 9- Canadian Breast Cancer Society for post-doctoral fellowship in Department of Biochemistry and Molecular Biology at University of Manitoba, Winnipeg, Canada
- 10- Japanese Government Scholarship (MONBUSHO) from March, 1991 to September, 1992.

Membership of Scientific Societies:

Middle East Association of Cancer Research (MEACR)
Federation of American Societies for Experimental Biology (FASEB)
American Association for Cancer Research (AACR)
American Endocrine Society

European Association for Cancer Research (EACR)
American Society of Biochemistry and Molecular Biology (ASBMB)
European Cancer Organisation

Research Interest:

- 1- Cancer Molecular Biology
- 2- Molecular Pharmacology
- 3- Apoptosis and Molecular Signaling
- 4- Endocrinology

Chapter Book publication.

Alokail MS. Molecular signaling of PTHrP in tumor. In: Luparello C, editor. Novel aspects of PTHrP physiopathology, New York: Nova Biomedical publishing Co.; 2007. p. 191-233.

Patent

Patent (European) 09005726.6-2123 – Protective effect of thymoquinone in sepsis
Inventors - Dr. Khalid Alkharfy, Dr. Nasser Al-Daghri, Prof. Omar Al-Attas, Dr. Majed Alokail

Awards

1- AACR – Roche Cancer Award for a presented paper entitle " Gene array analysis of breast cancer cell lines treated with Taxotere and Ukrain". Advances in Cancer Research: From the Laboratory to the Clinic, March 16 - 19, 2008, King Hussein Bin Talal Convention Center, Dead Sea, Jordan.

2- AACR – AVON Breast Cancer Foundation Award for a presented paper entitle " Induction of erbB1 and erB2 Receptors by PTHrP in Breast Cancer Cells" in the 96th Annual Meeting of American Cancer Research (AACR) in Los Angeles, CA.USA, 2005.

Publication:

O.S. Al-Attas and **M.S. Alokail**. Features of insulin receptor interaction in placenta from normal, overt and poorly controlled gestational diabetic patients. *Molecular & Cellular Biochemistry*. (Netherlands) 1991, 126: 135-142.

M.S. Alokail and O.S. Al-Attas. Histological changes in Placental Syncytiotrophoblast of poorly controlled gestational diabetic patients. *Endocrine Journal*.(Japan) 1994, 41(4), 355-360.

M.S. Alokail. Modified Iodo-Gen method for peptide hormones iodination. *Journal of Saudi Chememical Society*, 2002, 6:15-20.

M.S. Alokail. Potential regulation of PTH/PTHrP receptor expression in choriocarcinoma JAR cell line. *Saudi Medical Journal*, 2004, 25: 615-620.

M.S. Alokail and S.A. Alarifi. Histological changes in lung of Wistar albino rats (*Rattus norvegicus*) after exposure to the Arabian incense (Genus *Boswellia*). *Annals of Saudi Medicine*, 2004, 24: 217-219.

- M.S. Alokail.** PTHrP Gene Transfection Regulates Colon Cancer Cells Proliferation. Portugal. *Medimond International Proceedings*. 2004, 1467-1471.
- S.A. Alarifi M. Mubarak and **M.S. Alokail.** Ultrastructural changes of pneumocytes of rat exposed to Arabian incense (Bakhour). *Saudi Medical Journal*. 2004 Nov;25(11):1689-93..
- S.A. Alarifi, M. Mubarak, M.S. Alokail. Ultrastructure of the Pulmonary Alveolar cells of rats exposed to Arabian mix incense (Ma'amoul). *Journal of Biological Sciences*. In press. 4:6: 694-697, 2004.
- M.S. Alokail** and M. Alhasan. Thermo Stable Characteristics of Arabian Palm Date (Phoenix Dactylifera L.) Peroxidase. *Saudi Journal of Biological Sciences*. 2005: 12; 1; 25-31.
- Alokail MS.** Transient transfection of epidermal growth factor receptor gene into MCF7 breast ductal carcinoma cell line. *Cell Biochemistry and Function*. 2005;23(3):157-161.
- Alokail MS.** Influence of parathyroid hormone-related peptide gene in colon cancer cell line growth. *Saudi Med J*. 2005 May;26(5):714-717.
- Barnes, J.D., Arhel, N.J., Lee, S-S., Sharp, A., **Alokail, M.S**, Packham, G., Hague, A., Paraskeva, C and Williams, A.C. Nuclear BAG-1 expression inhibits apoptosis in colorectal adenoma derived epithelial cells: Implications in colorectal tumour development. *Apoptosis*. 2005, Mar;10(2):301-11.
- Al-Mansouri LJ, and **Alokail MS.** Molecular basis of breast cancer. *Saudi Med J*. 2006 Jan;27(1):9-16.
- Ahmed MH, Osman MM, and **Alokail MS.** Statins and breast cancer: a smoking gun or guilt by association? *Expert Opinion Drug Safety*. 2006 Sep;5(5):599-601.
- Alokail MS** and Peddie MJ. Characterisation of ligand binding to the parathyroid hormone /parathyroid hormone-related peptide receptor in MCF7 breast cancer cells and SaOS-2 osteosarcoma cells. *Cell Biochemistry and Function*. 2007;25: 139-147.
- Alokail MS.** Comparative effects of vitamin D and EB1089 analoge in mRNA expression of parathyroid hormone-related peptide in prostate and breast cancer cells. *Endocrine Abstracts*. 2007: 13; P120.
- Alokail MS** and Peddie MJ. Quantitative Comparison of PTH1R in Breast Cancer MCF7 and Osteosarcoma SaOS-2 Cell Lines. *Cell Biochemistry and Function*. 2008; 26: 522-33.
- Alenad AM and **Alokail MS.** Nanoparticles: Promising Tools for Genomic Application. *Arabian Journal of Chemistry*. 2008; 1(1): 83-91.
- MS Alokail**, LJ Al-Mansouri, SS Bin Amer. Molecular mechanism effect of taxotere and ukrain in cell cycle regulating genes in positive and negative breast cancer cell lines *The FASEB Journal*, 2009 – FASEB
- Al-Daghri Nasser M; Al-Attas Omar S; **Alokail Majed**; Draz Hossam M; Bamakhramah Ahmed; Sabico Shaun. Retinol binding protein-4 is associated with TNF-alpha and not insulin resistance in subjects with type 2 diabetes mellitus and coronary heart disease. *Disease markers*. 2009; 26(3):135-140
- Alokail MS**, Al-Daghri NM, Al-Attas OS, Hussain T. Combined effects of obesity and type 2 diabetes contribute to increased breast cancer risk in premenopausal women. *Cardiovasc Diabetol*. 2009 Jun 23;8:33.

- Alokail MS** Mitogenic influence of HRG β 1 and PTHrP in EGFR Signaling in Breast Cancer Transfected Cells. *Molecular and Cellular Pharmacology*. 2009;1(5):278-289.
- Alfares N., Alsawady A., **Alokail MS**. Effect of samh seeds (Mesembryanthemum forsskalei Hochst)) in Liver Enzymes and Lipids in STZ-induced Diabetic Wistar Albino Rats. *Saudi Journal of Biological Sciences*, 2010, 17(1) 23-28.
- Al-Daghri NM, Al-Attas OS, **Alokail MS**, Alkharfy KM, Draz HM. Relationship between resistin and aPAI-1 levels with insulin resistance in Saudi children. *Pediatr Int*. 2010 Jan 26
- Nasser M. Al-Daghri, **Majed S. Alokail**, Omar S. Al-Attas and Kumar S. *Ann Saudi Med*. Establishing abdominal height cut-offs and their association with conventional indices of obesity among Arab children and adolescents. *Ann Saudi Med*. 2010 May-Jun;30(3):209-14.
- Alkharfy K, Aldaghri NM, Al-Attas OS, **Alokail M**, Draz HM, Hussain T. Endothelial nitric oxide synthase gene polymorphisms (894>T and -786>C) and risk of coronary artery disease in a Saudi population. *Arch Med Res* 2010; 41(2): 134-141.
- Al-Daghri NM, Al-Attas OS, **Alokail MS**, Alkharfy KM, Yousef M, Nadhrah HM, Al-Othman A, (Al-Saleh Y), Sabico S, Chrousos GP. Hypovitaminosis D and cardiometabolic risk factors among non-obese youth. *Cent Eur J Med* 2010
- Al-Attas OS, Al-Daghri NM, **Alokail MS**, Al-Fadda A, Bamakhramah A, Sabico S, Pritlove D, Harte A, Tripathi G, McTernan PG, Kumar S, Chrousos G. Adiposity and insulin resistance correlate with telomere length in middle-aged Arabs: the influence of circulating adiponectin. *Eur J Endocrinol* 2010; 163(4):601-7
- Al-Daghri NM, Al-Attas OS, **Alokail MS**, Alkharfy KM, Al-Yousef M, Nadhrah H, (Al-Saleh Y), Sabico S, Chrousos G. Severe hypovitaminosis D is widespread in Saudi adults and is more common in non-diabetics than diabetics. *Saudi Med J* 2010; 30(3):209-14
- Alokail MS**, Mohammad A. Ismael, Saud A. Alarifi. Antioxidant enzyme activity and lipid peroxidation in liver of Wistar rats exposed to Arabian Incense. *Animal Biology Journal*. 2010 2 (1); 1-10
- Alokail MS** Cobalt chloride, a chemical inducer of hypoxia inducible factor-1 α . In human glioblastoma cells. *Journal of Saudi Chemical Society*. 2010; 14(2) 197-201.
- Al-Daghri NM, Al-Attas OS, **Alokail MS**, Alkharfy KM, Sabico SL, Chrousos GP. Decreasing prevalence of the full metabolic syndrome but a persistently high prevalence of dyslipidemia among adult Arabs. *PLoS One*. 2010 Aug 13;5(8):e12159.

Poster or Oral Presentation in International Conferences:

- M.S. Alokail** and OS. Al-Attas (1990) Characterization of insulin-receptor interaction in Saudi diabetic pregnancy. On Fourth Kuwait International Medical Science Conference: Diabetes Mellitus. March 4-8, Univeristy of Kuwait Faculty of Medicine, Kuwait.
- M.S. Alokail** and OS. Al-Attas. (1992) Biochemical, Histological and Histochemical changes in diabetic placenta. On first international union of biochemistry and molecular biology (IUBMB): Biochemistry and diseases. June 1-6, Nagoya Congress Center, Japan.

- M.S. Alokail** and MJ. Peddie (1997) Parathyroid hormone-related peptide (PTHrP) as an autocrine growth factor in breast cancer MCF7 cells. in Growth Factor Group symposium, November 26TH, St.Thomas's Hospital in London.
- MS. Alokail** and MJ. Peddie. (1998) The role of Epidermal Growth Factor, Estradiol and 1,25 Dihydroxycholecalciferol in Production of PTHrP from breast cancer MCF7 Cells. *Journal of Endocrinology*. 156: P113.
- M.S. Alokail** and MJ. Peddie (1998).Characterisation of parathyroid hormone / parathyroid hormone-related peptide receptors in the breast cancer MCF7 cells. In 80TH annual meeting of American Endocrine Society meeting. P3-143, June 24-27, 1998 in New Orleans, USA
- M.S. Alokail** and M.J. Peddie (1998). Effect of parathyroid hormone (1-34) and parathyroid hormone-related peptide (1-34) on epidermal growth factor receptor expression in breast cancer MCF7 cells. In 80TH annual meeting of American Endocrine Society meeting. P3-323, June 24-27, 1998 in New Orleans, USA
- M.S. Alokail** and M.J. Peddie (1998). Characterization of the PTHrP specific receptor in MCF-7 breast cancer cells. *Journal of Endocrinology*. 159: P42
- M.S. Alokail** and JM. Peddie (1999). Regulation of PTH/PTHrP receptor expression in MCF-7 breast cancer and SaOS-2 osteosarcoma cells by dexamethasone, 1,25 DHCC, EGF, E2, and PTHrP-1-34. *Journal of Endocrinology*. 160: P183
- M.S. Alokail** and MJ. Peddie (1999). Effect of EGF, estradiol, 1,25 dihydroxycholecalciferol, and dexamethasone on PTH/PTHrP receptor affinity in MCF-7 breast cancer and SaOS-2 osteosarcoma cells. *Journal of Endocrinology*. 160: P184
- M.S. Alokail** and MJ. Peddie (1999). Effect of Trp23-PTHrP-1-36 and Ile5-Trp23-PTHrP-1-36 on displacement of ¹²⁵I-PTHrP-1-34 on breast cancer MCF7 cells and osteosarcoma SaOS-2 cells. In 81st annual meeting of American Endocrine Society, P-118, June 12-15, 1999, San Diego, CA, USA
- M.S. Alokail** and MJ. Peddie (2001). Investigation of PTH and PTHrP interactions to the PTH/PTHrP receptor in the choriocarcinoma JAR cell line. In 83rd annual meeting of American Endocrine Society, P2-635, June 20-23, Denver, Co, USA
- M.S. Alokail** (2002). Regulation of choriocarcinoma JAR cell line proliferation and PTH/PTHrP receptor expression with EGF, E2, DEX or 1,25 DHCC. In 84th annual meeting of American Endocrine Society (Genome on Endocrinology), P2-230, June 19-22, San Francisco, CA, USA.
- M.S. Alokail** (2003) Influence of parathyroid hormone-related peptide gene on proliferation of human colonic cancer cells. The 94th Annual Meeting of American Cancer Research in Toronto, Ontario, Canada
- MS. Alokail**. Application of insulin gene therapy in non-endocrine cell line, COS-7. In 6th Saudi Pharmaceutical international conference. 6-9, October, 2003, Riyadh, Saudi Arabia
- M.S. Alokail**. Resistin hormone and type II diabetes mellitus. In 6th Saudi Pharmaceutical international conference. 6-9, October, 2003, Riyadh, Saudi Arabia
- M.S. Alokail**. New application for iodo-gen iodination with single or multi tyrosine residues in peptide hormones. In the 2nd International conference on chemistry and its applications. 6-9 of December, 2003, Doha, Qatar.

MS. Alokail. Parathyroid hormone-related peptide gene transfer and colon cancer cell proliferation. In the 23rd Joint Meeting of the British Endocrine Societies. 22nd-24th March 2004 in Brighton, UK

M.S. Alokail. Parathyroid hormone-related peptide stimulates signal transduction pathway of ErbB1 and ErbB2 receptors in breast cancer cells. The 86th Annual Meeting of The American Endocrine Society, P3-34, 16-19, June, 2004, New Orleans, USA.

M.S. Alokail (2005) Induction of erbB1 and erbB2 Receptors by PTHrP in Breast Cancer Cells. The 96th Annual Meeting of American Cancer Research (AACR) in Los Angeles, CA, USA, P5780, page 383.

M.S. Alokail. PTHrP Induced the Signalling of Breast Cancer MCF7 Cells Transfected with EGFR and erbB2 Receptor Genes. Meeting of The American Endocrine Society, June, 2006: P1-376.

O.M. Aboulwafa, KM. Youssef, A.M. Al-Okbeid and **M.S. Alokail.** Modified Estrogens: Synthesis of alkylamino- and alkylthioacetyl amino estrone derivatives as anticancer agents. The 7th International Saudi Pharmaceutical Conference. March, 2007, Riyadh. KSA

O.M. Aboulwafa, m.s. Al-mutairi, KM. Youssef, H.I. Al-Subbagh, O.A. Al-Deeb, A.J. Fatani and **M.S. Alokail.** Synthesis of some 2- and 4-peptidylestrone derivatives of potential therapeutic activity. The 7th International Saudi Pharmaceutical Conference. March, 2007, Riyadh. KSA

Alokail MS. Comparative effects of vitamin D and EB1089 analoge in mRNA expression of parathyroid hormone-related peptide in prostate and breast cancer cells. *British endocrine society meeting (BES07). March 5th to March 8th, 2007. Birmingham, UK*

Alokail MS, Al-Mansouri LJ, Bin Amer SS. Gene array analysis of breast cancer cell lines Treated with Taxotere and Ukrain. *Advances in Cancer Research: From the Laboratory to the Clinic, March 16 - 19, 2008, King Hussein Bin Talal*

Convention Center, Dead Sea, Jordan.

Alokail MS. Vitamin D3 and EB1089 analoge modulate mRNA expression of parathyroid hormone related peptide in prostate and breast cancer cell lines. In 13th International Congress of Endocrinology, Nov. 8th-Nov. 12th, 2008, in Rio de Janeiro, Brazil.

Alokail MS. PTHrP and HRG Outcomes in MCF7 Breast Cancer Cells Transfected with HER Receptors Gene. 6th Regional Postgraduate Course in Clinical Endocrinology. 03 May 2008 - 07 May 2008, 10th European Congress of Endocrinology. Messe Berlin GmbH Internationales Congress Centrum ICC Berlin Berlin, Germany.

Al-Daghri NM, **Alokail MS.** A comparative study between sagittal abdominal diameter and conventional indices of obesity in Saudi children and adolescents. *Advanced Diabetes Technologies and Treatments Conference (ATTD 2008); Feb 27-March 1, 2008; Prague, Czech Republic.*

Alokail MS Al-Mansouri LJ, Bin Amer SS. Molecular mechanism effect of taxotere and ukrain in cell cycle regulating genes in positive and negative breast cancer cell lines. Annual Meeting of American Society of Biochemistry and Molecular Biology. 18-22, April, 2009. New Orleans, USA.

M.A. ismael, **MS. Alokail,** S. Al. Alarifi. Antioxidant enzyme activity and lipid peroxidation in liver of rats exposed to Plant Incense. *Third SMBBM International Congress of Biochemistry, IUBMB Special Meeting on Plant Stresses & 6th Congress of FASBMB. Marrakech -Morocco, APRIL 20-25, 2009. PP198*

Nasser Al-Daghri, Omar Al-Attas, **Majed Alokail**, Hossam Draz, Ahmed Bamakhramah & Shaun Sabico. Retinol binding protein-4 is associated with TNF- α and not insulin resistance in subjects with type 2 diabetes mellitus and coronary heart disease. In European Congress of Endocrinology. Istanbul, Turkey 25- 29 April 2009. *Endocrine Abstracts* (2009) 20 P384.

Majed Alokail. Synthetic estrone derivatives as anticancer agents and as suppressors of hypoxia-inducible factor-1 α in breast, prostate and glioma cancer cell lines. Presented in the Annual Meeting of Experimental Biology, April 24-28, 2010, Anaheim, California, USA.

Majed Alokail. The association of biomarkers of insulin resistance and obesity to prostate tumour markers" European Association of Cancer Research meeting (EACR-21) in Oslo, Norway, 26-29th June, 2010.

Majed Alokail. The link between insulin resistance and obesity and prostate tumor markers development in adult men. Accepted in National Cancer Research Institute (NCRI) cancer conference 2010, 07 - 09 November 2010, Liverpool, England, UK